



RHICS EXECUTIVE SUMMARY



**NAVAL SUPPLY SYSTEMS COMMAND
CODE 4C3/ P. O. BOX 2050
MECHANICSBURG, PA. 17055-0791**

Table of Contents

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| Table of Contents | i |
| Introduction..... | 1 |
| Background | 1 |
| RHICS Overview | 1 |
| <i>System Requirements</i> | 2 |
| <i>System Capabilities</i> | 2 |
| System Software Menu Options | 3 |
| <i>Issue Materials</i> | 3 |
| <i>Issue Correction</i> | 3 |
| <i>Return Materials</i> | 3 |
| <i>Requisition</i> | 3 |
| <i>Receive</i> | 3 |
| <i>Master Stock Record</i> | 4 |
| <i>Asset Visibility</i> | 4 |
| <i>Reports</i> | 4 |
| <i>Tools</i> | 6 |
| <i>Utilities</i> | 7 |
| RHICS Points of Contact | 8 |
| Conclusion | 8 |

INTRODUCTION

The Regional Hazardous Inventory Control System (RHICS) is a web application designed to support the Consolidated Hazardous Material Reutilization and Inventory Management Program (CHRIMP), NAVSUP PUB 722, for the ashore communities not requiring the Hazardous Substance Management System (HSMS). The RHICS program is sponsored by the Naval Supply Systems Command (NAVSUP Code 4C3) as the system for managing and tracking hazardous material (HM) inventories ashore. RHICS includes functions that allow the user to build and maintain an inventory, issue material from a centralized location, requisition, receive and track material from various Hazardous Materials Minimization Centers (HAZMINCEN). RHICS will enable Asset Visibility of all HM on a regional as well as global level.



BACKGROUND

RHICS is designed to replace the character based Disk Operating System (DOS) version of HICS 4.2 that is currently used ashore. RHICS can be an alternative to the Hazardous Substance Material System (HSMS) that is used by shore installations that do not need the full capabilities of HSMS. In addition, RHICS will eventually incorporate the functionality of the Regional Hazardous Material Management System (RHMMS). Initially, RHICS will only incorporate the asset visibility module of RHMMS. The application will be accessed via NETSCAPE 4.76/Internet Explorer 5.5 browser through a centralized web server and will incorporate Public Key Infrastructure (PKI) certification while being DOD Information Technology Security Certification and Accreditation Process (DITSCAP) compliant.

DITSCAP Certification and Accreditation approval was obtained on 18 March 2002.

RHICS OVERVIEW

The RHICS application provides the tools necessary for Regional Hazardous Material Managers to establish their Hazardous Minimization Center(s) (HAZMINCEN) within their region. The application provides the necessary tools for the HAZMINCEN operators, safety, and environmental personnel to properly manage hazardous material for an activity using a central database and web application. A user would logon to the application using his/her standard Personal Computer (PC) via their web browser. Once logged into the application, the user can perform issues, receipts, container return, inventory functions, reports, maintain user profiles and site profiles and update the Authorized User Lists (AUL) depending upon the access level of the user. The users can

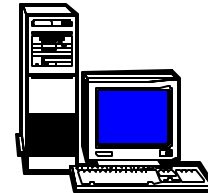
also perform asset visibility checks for reusable material at other HAZMINCEN's within their own region or from other regions.

System Requirements

RHICS is a web application accessing a centralized Oracle 8i database through the use of Microsoft Internet Explorer or Netscape. Recommended system requirements for the HAZMIN Center personnel include:

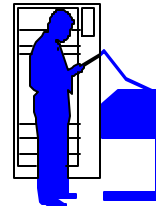
Hardware

- Pentium 2 400 MHz or better with at least 64 MB of RAM
- CD-ROM/3.5 Drive



Bar Coding Equipment

- Bar code printers, Intermec Model 4100 or 3400 or Zebra Z4000
- Bar code readers, Intermec Janus 2010/2020 with 4 MB of RAM or Symbol model PDT_7240
- Barcode Scanner, Intermec 1545



Optional Equipment

- Uninterruptible power supply unit (Smart-UPS)

Software

- Windows 95/98/2000 or NT
- Java Runtime Environment (JRE) Version 1.3.1 (downloadable from the web)
- Microsoft Internet Explorer Version 5.5 or Netscape Version 4.76 (downloadable from the web)



For HAZMIN Center customers, the user only needs Microsoft Internet Explorer Version 5.5 or Netscape Version 4.76 and a User Id and Password

SYSTEM CAPABILITIES

In support of the CHRIMP philosophy, the RHICS program includes functions that allow the user to build and maintain inventory records, issue, requisition, and receive materials while tracking inventory from a centralized database. RHICS provides a variety of reports, generates barcode labels and maintain an Authorized Users List (AUL) to ensure material is being issued to an approved work center or person. The RHICS application will provide asset visibility of material within each Hazardous Material (HM) region as well as global asset visibility. At the Regional Level, RHICS provides the ability for Regional Managers to screen requisitions against assets at the various HAZMIN Centers in the regions and pass requisitions to the appropriate activity to be

filled. Status is then provided back to the requesting activity when the requirement is filled or the requisition can be passed in to the supply system.

Subsequent releases of the application will also provide the regional manager with capabilities to manage HM regionally in the areas of stock management, demand processing, financials, change notice, and exception processing.

Through the WEB front end of the RHICS application, HAZMIN Center customers, who have a User Id and Password, have the ability to order material from their supporting HAZMIN Center over the WEB. After placing their order, the HAZMIN Center is notified electronically that there are material orders to be processed. The customers also have access to Asset Visibility from the main WEB page as well. Safety and Environmental are also provided with the ability to maintain their site AUL providing they have a User Id and Password into the application.

SYSTEM SOFTWARE MENU OPTIONS

RHICS consists of seven functional menu options designed to meet the Navy's goal of reducing HM through source reduction methods. These menu options record, track and report on every stage of a hazardous material's life cycle as it moves through the procure-store-move-issue-use-discard/recover path. The following provides the menu and sub-menu option name and a brief description:

1. Inventory Menu Option consists of the following sub-menus:

Issue Materials – Allows hazardous materials to be issued from the Hazardous Material Minimization Center (HAZMINCEN) based on the location of the material and shelf life date. The requested material is issued to a person within a certain work center and only in the quantity required to complete the task. An item may be issued as Reuse or Cost material. A barcode label and receipt will be printed for each issued item. When issuing a National Emissions Standards for Hazardous Air Pollutants (NESHAP) Compliant paint, the user will be required to select the appropriate NESHAP Coating Category and Military Specification assigned to that item.

Issue Correction - Allows quantity correction(s) to previously issued materials. A barcode label and receipt will be printed for each issued item.

Return Materials – Consists of the following two sub-menus:

- **Container Return** - Allows tracking of the containers manually by the barcode label attached to the container at time of issue.

- **Container Return Automated** – Allows tracking of the containers automatically by scanning the barcode label attached to the container at time of issue.

Requisition - Allows for material to be ordered to re-stock inventory. A General tab page contains all the information that is specific to an item ordered. A Due-In tab page contains the status of Outstanding Requisitions. The system will also allow the HAZMIN Center to pass his/her requisitions into the supply system through DAAS if they are allowed.

Receive - Allows you to receive hazardous material and enter it into the inventory. Materials can be received as Reuse or Cost Material requisitioned through the Navy Supply System.

Master Stock Record – Consists of the following four sub-menus:

- **Inventory Update** - Allows you to build and maintain a database of the material in your inventory. Data for each inventory item is displayed on the National Item Identification Number (NIIN), Commercial and Government Entity (CAGE), Environmental/Safety (Env/Safety), Location, Material Safety Data Sheet (MSDS) and Chemical tab pages. An Authorized Users List (AUL) tab page is only displayed when the item is marked as “R” for restricted for use by certain work center(s).
- **Inventory View** – Allows you to view the hazardous material in your inventory.
- **Updating Tracking** – Allows you to update the material in your inventory automatically through the use of a scanner and to perform LBI and GBI adjustments.
- **Stock Check** – Allows you to view your inventory items and check locations, quantities, type of material, and shelf life dates.

2. **BP 28/REQN Processing menu option consists of the following sub-menus:**

Issue – Consists of the following three sub-menus:

- **HAZMIN Issue** – Allows for the processing of requisitions that have been passed from the regional manager.
- **Reverse Issue** – Allows the user to reverse an issue that has been made through either HAZMIN or BP 28 Issue menu options.
- **BP 28 Issue** – Consists of the following two sub-menus:

- **Manual** – Allows for the inputting of the 80cc MILSTRIP requisition data for issuing the material and the subsequent TIR transactions to the Material Financial Control System for inventory and billing purposes.
- **Automated** – Allows for the input of a text file containing 80cc MILSTRIP data. Each requisition can then be processed for issue and the appropriate TIR transactions submitted.

Receive – Consists of the following three sub-menus:

- **Manual Offload** – Allows for the inputting of BP 28 receipt information from an offload of BP 28 material from a ship. The item can then be received and the appropriate TIR transactions submitted.
- **Automated Offload** – Allows for the input of an Offload file consisting of DWK transactions. Each record can then be received and the appropriate TIR transaction submitted.
- **Requisitioned Material** – Consists of two sub-menus:
 - **Supply System** – Allows for the processing of receipts for material issued by the supply system and the submitting of the appropriate TIR transactions.
 - **Open Purchase** – Allows for the processing of receipts that have been procured from the commercial market place and the submitting of the appropriate TIR transaction.

Recreate TIR – Allows for the recreation of any previous TIR transaction that had been submitted to the Material Financial Control System.

AS1 Status Format – Allows for the generation of AS1 MILSTRIP documents and Proof of Shipment TIR transactions.

Reports – Consists of two sub-menus:

- **Issue by Activity** – Allows for the generation of a report that provides issue data by activity.
- **Receipt by Activity** – Allows for the generation of a report that provides receipt data by activity.

4. **Asset Visibility Menu Option consists of the following two sub-menus:**

Regional Search – Allows for the viewing of all hazardous material throughout a region.

Global Search - Allows for the viewing of all hazardous material worldwide.

5. **Reports Menu Option consists of the following four sub-menus:**

Inventory – Consists of the following eight sub-menus:

- **Master List by Location** – Provides a list of all items in inventory for all locations or by a specific location in the HAZMINCEN.
- **Master List by NIIN** - Provides a list of all items in inventory by National Item Identification Number (NIIN) displaying the Low/High Limits, Quantity On Hand, Price Per U/I, Total Price and the location(s) in the HAZMINCEN.
- **Orders Received** - Provides information about material that has been received into inventory within a specified period.
- **Orders** - Provides information about orders that have been placed for material within a specified period.
- **Re-Order** - Provides a list of items in inventory with the on hand quantities below the designated low limit, plus all items that have been previously ordered and the date ordered.
- **Excess** - Provides a list of items in the inventory with the on hand quantities above the designated high limit.
- **Shelf Life** - Provides a list of items whose shelf life expires in a specific month/year.
- **Material Type** – Provides a list of Material by the Material Type and Location.
- **NIINs Marked Inactive** – Provides a list of all NIINs that have been marked inactive within the database. By inactive, it has been removed from visibility of normal operations.

Issue – Consists of the following two sub-menu:

Issue List – Consists of the following seven sub-menus:

- **Activity** – Provides a list of all items issued for a particular activity within a specified period.
- **Work Center** - Provides a list of all items issued for all Work Centers or for a specific Work Center within a specified period.
- **By NIIN** - Provides a list of all items issued by NIINs within a specified period.
- **NIIN Active** - Provides a list of NIINs that were issued later than the date entered.
- **NIIN Inactive** - Provides a list of NIINs that were not issued during a specified period.
- **NESHAP** – Consists of the following two sub-menus:
 - **NESHAP Compliant** - Provides a list of all paints that are National Emissions Standards for Hazardous Air Pollutants (NESHAP) Compliant that were issued during a specified period.
 - **NESHAP Non-Compliant** - Provides a list of all items that are NESHAP Non-Compliant that were issued during a specified period.
- **NIIN Cumulative Demand History** - Provides a list of items issued by NIIN with the total used and total number of demands for a specified time period.

Container Return – Consists of the following three sub-menus:

- **Delinquent Containers** - Provides a list of containers that have not been returned to the HAZMINCEN by all Work Centers or by a specific Work Center within a specified date range.
- **Master Container Tracking** - Provides a list of containers issued to all Work Centers or for a specific Work Center along with their current status within a specified date range.
- **Returned Containers** - Provides a list of containers returned to the HAZMINCEN by all Work Centers or by a specific Work Center within a specified date range.

Totals – Consists of the following three sub-menus:

- **Line Items Issued** – Provides a total of all NIINs or a specific

NIIN issued within a specified date range.

- **Containers Due** - Provides a total of all containers due to the HAZMINCEN within a specified date range.
- **Requisitions Processed** – Provides a total of all orders processed for all NIINs or a specific NIIN within a specified date range.

Chemical – Consists of the following two sub menus:

- **Weight by CAS** – Provides a report of all chemical constituents and the weight on hand for that chemical.
- **CAS by NIIN** – Provides a list of all chemical constituents and its weight by NIIN.

AUL - Provides a list of items that have an Authorized Users List (AUL).

NAVSUP Monthly - Provides a total number of line items in inventory, reuse issues
cost issues and material received along with the weight and dollar value of the material

6. **Tools Menu Option consists of the following five sub-menus:**

HAZMIN Profile Wizard – Provides for the creating and modifying of HAZMIN Center information while attaching Activities, Work Center and Customers.

Inventory Wizard – Provides for the adding of a new NIIN from the master HM database or local purchase NIIN to your inventory.

User Wizard – Allows HAZMIN Center supervisor to add new users and maintain existing user accounts.

System Change Request – Provides the ability to enter a requested functional change to the system online.

Program Trouble Request – Provides the ability to enter a problem regarding the application online.

7. **Utilities Menu Options consists of the following seven sub-menus:**

Change Password – Allows the changing of a user(s) password.

HAZMIN Center Profile – Allows for the viewing of HAZMIN Center information and the associated Activities, Work Centers, and Customers.

Inventory Locations – Allows for the adding and/or modifying of location(s).

Disposal Codes – Allows for the adding and/or modifying of Disposal Codes that indicates the cost per pound for disposal of material.

References – Consists of the following five sub-menus:

- **HMUG Incompatible Materials** – Provides as a guide for the proper storage and segregation of material.
- **Types of Storage Codes** – Provides a guide that represents the type and condition of storage space required for the material. Refer to NAVSUP P-485 Volume II, Appendix 27 for more detailed information.
- **Hazardous Characteristics Codes** - Provides a simple means of identifying, tracking and storing hazardous materials.
- **Shelf Life Codes** – Provides a guide indicating the single digit alpha or numeric code. Type I codes (alpha) apply to items for which shelf-life cannot be extended. Type II codes (numeric) apply to items for which shelf life can be extended.
- **Shelf Life Action Codes** – Provides a guide indicating the two digit alpha-alpha, alphanumeric, or numeric-numeric codes. These codes are assigned to a shelf life item to specify the type of inspection, test or restorative action to be taken when the item has reached its storage shelf life, and to specify the extension of the shelf life time period after test or restorative action has been completed.

Master HM Database Check – Provides for the viewing of the all National Stock Numbers (NSNs) in Master Hazardous Material Database.

Miscellaneous Utilities – Consists of the following sub-menu:

- **Print Labels** – Provides the creating of Inventory, Location and User Defined barcode labels.

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| RHICS POINTS OF CONTACT |
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**RHICS Customer Support Help Desk:
Hazardous Material Program Office (HMPO)
FISC Norfolk
Norfolk, VA**

**1-866-792-3373
757-443-2552/2551
DSN 646-1474**

**Hazardous Material Program Office (HMPO)
CHRIMP/HICS Afloat Support**

East Coast

**757-443-1312
DSN 646-1312**

West Coast

**619-556-5026
DSN 526-5026**

Naval Supply Systems Command

717-605-1990

Navy Inventory Control Point – Mechanisburg

**1-800-237-8349
717-605-1474**

CONCLUSION

RHICS is a cradle to grave web application for HM inventory management by small shore activities. The system consists of five functional menu options that record, track, and report on all stages of a material's life cycle, providing information necessary for monitoring and reporting purposes. The primary objectives of the system to improve a HM management practices. Use of RHICS ultimately allows small shore activities to monitor the procurement, and use of hazardous materials, reduce HM inventories, prevent pollution, and integrate smart business practices into HMC&M.

